United States Patent [19]

Ho

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[54] **SYSTEM AND METHOD FOR GENERATING DATABASE INPUT FORMS**

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[58] **Field of Search** 395/149, 144, 395/148, 155, 156, 157; 358/403, 452, 453, 537, 538, 539; 382/164, 165

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[57] **ABSTRACT**

A system for generating voice activated computer data entry forms includes a scanner to scan an existing data entry form and to generate a digitized representation of the data entry form. Stored in the system's computer memory is a database for storing information, a voice dictionary and voice syntax files representing voice recognition information. A set of form definition procedures include an imaging procedure for displaying the scanned data entry form on the display and a region definition procedure for enabling a user to indicate regions of the displayed data entry form. Object definition procedures enable a user to define a multiplicity of objects, including form sections, text boxes, and checkbox buttons, and for specifying properties of the defined objects. The object properties that can be specified include (A) database links for linking selected objects to respective specified fields in the database, (B) exclusionary relationships for specifying which objects cannot be selected by end users when other specified objects have previously been selected, and (C) voiced command data specifying voiced commands to use for end user voiced selection of said objects. The object definition procedures store, in a form definition data structure in the computer system's memory, form definition data corresponding to the user defined objects and user specified object properties. The scanned form can be color coded to indicate different objects in the form and color information in the form's digitized representation is automatically decoded to generate object and object property definitions.

12 Claims, 10 Drawing Sheets